```
int ledPin = 9;
int brightness = 0;


void setup(){
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
}

void loop(){
  int sensorValue = analogRead(A0);
  Serial.println(sensorValue);
  analogWrite(ledPin, brightness);
  brightness = map(sensorValue,0,1024,0,255);
  analogWrite(ledPin,brightness);
  delay(1);
}
```